

Name: Andrea Ghermandi

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CURRICULUM VITAE

1. Personal Details

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Notes: * marks items added since appointment to Senior Lecturer on June 2016.

2. Higher Education

Undergraduate and Graduate Studies

Period of	Name of Institution and Department	Degree
1996–2003	Faculty of Civil and Environmental Engineering, University of Trento,	Master of Environmental Engineering
2004	Catholic University of Leuven and the Free University of Brussels,	M.Sc. in Water Resources Engineering
2004–2008	School for Advanced Studies in Venice Foundation, Cà Foscari University of Venice, Italy	Ph.D. in Analysis and Governance of Sustainable Development (Doctor Europaeus)

Post-Doctoral Studies

Period of Study	Name of Institution and Department	Name of Host
2008–2011	Cà Foscari University of Venice, Department of Economics	Dr. Paulo Nunes
2008–2013	Ben-Gurion University of the Negev, Dept. Desalination and Water Treatment	Dr. Rami Messalem
2012	The Hebrew University of Jerusalem, Dept. of Agricultural Economics and	Dr. Iddo Kan

3. Academic Ranks and Tenure in Institutes of Higher Education

Name of Institution and Department	Dates	Rank/Position
University of Urbino, Faculty of Science and Technology, Italy	2010	Contract professor in Economic Valuation of Environmental Resources

University of Haifa, Natural Resources and Environmental Research Center	Since 2010	Associate researcher
Universitat Autònoma de Barcelona, Inst. of Environmental Science and Technology, Spain	2012–2013	Associate researcher
Dept. of Natural Resources and Environmental Management (NREM), University of Haifa	2011–2013	Lecturer (part-time 50%)
	2013–2016	Lecturer (full-time 100%)
	* Since 2016	Senior lecturer (tenured)

4. Offices in Academic Administration

Years	Name of Institution and Department	Role
2013–2017	Faculty of Management, University of Haifa	Founder and academic head of MBA program with specialization in Sustainability
Since 2016	Natural Resources and Environmental Research Center, University of Haifa	Member of Executive Committee
* Since 2017	Dept. of Natural Resources and Environmental Management, University of Haifa	Head of Departmental M.A. Committee
* Since 2017	Dept. of Natural Resources and Environmental Management, University of Haifa	Member of Departmental Ph.D. Committee

5. Scholarly Positions and Activities outside the University

Membership in Academic Professional Associations

- 2003–2013 Member of the Italian Order of the Engineer
- 2009–2011; 2014–2015 Member of the European Association of Environmental and Resource Economists (EAERE)
- Since 2011 Chair of the Biome Expert Groups for Coastal systems and Coastal Wetlands of the Ecosystem Services Partnership
- 2012–2014 Coordinator of Sub-tropical and Mediterranean Coastal Wetlands Biomes at the Marine Ecosystem Service Partnership
- Since 2013 Member of the Global Young Academy
- 2014 Member of the economic team of Israel's National Ecosystem Assessment Program (HaMaarag)
- 2014 Member of the European Academies Science Advisory Council (EASAC) Working Group on Marine Sustainability
- 2015 Member of the Constructed Wetlands Association, UK

Professional Consulting and Other Work Positions

- 2007–2011 Consultant and associate researcher at Fondazione Eni Enrico Mattei and FEEM Servizi s.r.l., Italy on scaling up ecosystem services values and investigating the social dimension of biodiversity policies

- 2009–2010 Researcher at Euro-Mediterranean Center for Climate Change (CMCC), Italy on the assessment of methods to combat desertification
- 2009–2011 Consultant at Conservation International Foundation, Washington DC on valuing coastal and marine ecosystems for tourism and recreation
- 2010–2011 Contributor to the Environmental Valuation Reference Inventory
- 2014 Consultant for WWF International on understanding and valuing the marine ecosystem services of the Northern Mozambique Channel
- 2015 Consultant for the University of the West Indies, Trinidad and Tobago on mapping ecosystem service values in Trinidad and Tobago
- 2015 Member of scientific committee of “Frontiers in Environmental and Water Management” international conference, 19-21 March, 2015, Kerala, Greece
- 2015 Reviewer for the United Nations Environment Programme’s (UNEP) “Global Synthesis Report of the Project for Ecosystem Services (ProEcoServ)”
- 2017 Reviewer of papers submitted to Global Conference on Services Management, 3–6 October, 2017, Volterra, Italy

Membership in Journal Editorial Boards

* Since 2017 PeerJ (IF=2.177; 5-y IF=2.354; R20/64 Q2 Multidisciplinary Sciences)

Reviewing for Refereed Journals (alphabetic order)

Applied Geography; Bioresource Technology; Desalination; Desalination and Water Treatment; Ecological Economics; Ecological Engineering; Ecosystem Services; Environmental and Resource Economics; Environment, Development and Sustainability; Environmental Management; Environmental Monitoring and Assessment; Environmental Science and Technology; International Journal of Biodiversity Science and Management; Journal of Membrane Science; Land Degradation and Development; Landscape and Urban Planning; Review of Environmental Economics and Policy; The Science of the Total Environment

Reviewing for Fund Agencies

* 2017 Invited expert for European Commission Horizon 2020 proposals

6. Participation in Scholarly Conferences

International Conferences – Held Abroad

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
Sep 2005	WETPOL Symposium on Wetland Pollutant Dynamics and Control	Ghent, Belgium	The role of constructed wetlands in municipal wastewater reclamation and reuse	Speaker
Sep 2006	10 th Conf. on Wetland Systems for Water Pollution Control	Lisbon, Portugal	Removal of pathogens in constructed wetlands and its implications for water reuse	Speaker
Oct 2006	1 st Mediterranean Congress of Chemical Engineering for the Environment	Venice, Italy	An evidence-based characterization of the fate of pathogens in constructed wetlands	Speaker
Sep 2007	9 th BIOECON Conf. on Economics and Institutions for Biodiversity Conservation	Cambridge, UK	Exploring diversity: A meta-analysis of wetland conservation and creation	Speaker and Session Chairman
Oct 2008	IWA 6 th International Conf. on Wastewater Reclamation and Reuse for Sustainability	Antwerp, Belgium	On the development of a meta-analytical framework for the economic valuation of constructed wetlands	Speaker
			Modelling pathogen removal for the design of surface-flow constructed wetlands	Speaker
Nov 2008	5 th Conf. on Desalination Cooperation among Mediterranean Countries of Europe and the MENA Region	Dead Sea, Jordan	Design considerations and feasibility of solar desalination for agriculture in the Arava Valley, Israel	Speaker
			Solar-driven desalination with reverse osmosis: The state of the art	Speaker
Jun 2009	5 th Conf. of the United States Society for Ecological Economics	Washington DC, USA	Economic value of natural versus constructed ecosystems: evidence from a meta-analysis	Speaker
			Coastal tourism and recreation under climate change	Invited Speaker

Jun 2009	17 th Conf. of European Association of Environmental and Resource Economists	Amsterdam, the Netherlands	The economic value of natural and constructed ecosystems: Evidence from a meta-analysis	Speaker
Sep 2009	11 th BIOECON Conf. on Economic Instruments to Enhance the Conservation and Sustainable Use of Biodiversity	Venice, Italy	The values of coastal ecosystems for recreation and passive uses: A global analysis	Speaker and Session Chairman
			Climate change impacts on biodiversity and freshwater ecosystems values: Meta-analytical results from a European case study	Invited Speaker
May 2010	39 th Congress of the Mediterranean Science Commission (CIESM)	Venice, Italy	The recreational values of European coastal ecosystems and the impact of climate change	Speaker
Jul 2010	4 th World Congress of Environmental and Resource Economists	Montreal, Canada	Recreational values of coastal ecosystems: GIS-based meta-analysis and value transfer	Speaker and Session Chairman
Sep 2010	12 th BIOECON Conf., From the Wealth of Nations to the Wealth of Nature: Rethinking Economic Growth	Venice, Italy	Mapping the global values of recreation in coastal ecosystems: results from a meta-analysis	Speaker and Session Chairman
Jun 2011	18 th Conf. of the European Association of Environmental and	Rome, Italy	A place in the sun for coastal recreation: A GIS-based meta-analysis and global value map	Speaker
Sep 2011	13 th BIOECON Conf. on Resource Economics, Biodiversity Conservation and	Geneva, Switzerland	Global values of shoreline and coastal ecosystem services: a spatial analysis	Speaker
Sep 2011	World Conference on Marine Biodiversity	Aberdeen, UK	A place in the sun for coastal recreation: A GIS-based meta-analysis and value transfer	Speaker
Dec 2011	Symposium on Water Policy Issues in the Euro-Mediterranean Region	Thessaloniki, Greece	Ecological engineering for sustainable water management in the Mediterranean	Speaker
Apr 2012	EDS Conf. on Desalination for the Environment, Clean Water and Energy	Barcelona, Spain	An engineered oasis for solar desalination and arid land agriculture	Speaker
Apr 2013	1 st Conf. on Desalination using Membrane Technology	Sitges, Spain	More crop per drop: Solar desalination for desert agriculture	Speaker

Jun 2014	World Congress of Environmental and Resource Economists	Istanbul, Turkey	Building a benefitsheds of coastal recreation in Europe: the role of GIS in characterizing trade- offs and setting priorities for sustainable policy and management	Speaker
Aug 2014	Biannual Conference of International Society for Ecological Economics	Reykjavik, Iceland	Ecological- economics valuation and spatial mapping of regulation services: carbon sequestration in the Mediterranean	Speaker and Session Chairman
Jun 2015	Annual Conference of the European Association of Environmental and Resource	Helsinki, Finland	Economic valuation research on climate change, jellyfish outbreaks and impacts on coastal tourism	Speaker
Sep 2015	6 th International Symposium on Wetland Pollutant Dynamics and Control (WETPOL)	York, UK	Cultural ecosystem services of multi- functional natural treatment systems: time to enter the	Speaker
* Jun 2016	Conference of International Society for Ecological Economics (ISEE)	Washington, DC, USA	Understanding and valuing the marine ecosystem services of the Northern Mozambique Channel	Speaker
			Can interbasin water transfer for stream restoration be economically justified? The case of the Ayun Nature Reserve, Israel	Senior author (presented by student)
* Jul 2016	3 rd International Congress on Water, Waste and Energy Management	Rome, Italy	Solar-powered desalination of brackish water with nanofiltration membranes for intensive agricultural use in Jordan, the Palestinian Authority and Israel	Speaker
			Building natural capital in multi-functional ecologically engineered water treatment systems: an analysis of cultural ecosystem services	Speaker

			Analysis of farmers' attitude toward irrigation with desalinated brackish water in Israel's Arava Valley	Senior author
* Sep 2016	4th Conference on Transforming Development Through Inclusive Green Growth	Jeju Island, Republic of Korea	GHG emissions reductions in Israel: ramifications for employment	Senior author (presented by student)
* Aug 2017	International Conference on Environmental and Ecological Engineering	Venice, Italy	Valuing cultural ecosystem services of natural treatment systems using crowdsourced data	Speaker
* Nov 2017	9 th Conference of the Indian Society for Ecological Economics	Thrissur, India	Using geotagged photos from social media to value the recreational benefits of Kerala's wetlands in India	Senior author (presented by student)

International Conferences – Held in Israel

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
Oct 2010	EuroMed 2010 Conference on Desalination Cooperation among Mediterranean Countries of Europe and	Tel Aviv	Technical-economical evaluation of the operation of a solar-powered NF desalination plant for sustainable agriculture	Speaker
* May 2017	EuroMed 2017 Desalination for Clean Water and Energy: Cooperation around the World	Tel Aviv	Analysis of farmers' attitude toward irrigation with desalinated brackish water in Israel and Jordan	Speaker

Local Conferences – Held in Israel

Date	Name of Conference	Place of Conference	Subject of Lecture/Discussion	Role
Jun 2010	46 th annual conference of the Israeli institute of Chemical Engineers	Haifa	Technical-economical evaluation of the operation of a solar-powered NF desalination plant for sustainable agriculture	Speaker

Sep 2014	International workshop on The Israeli Mediterranean: the management aspect (NRERC)	Haifa	Jellyfish outbreaks and coastal recreation: welfare losses, impacted categories and vulnerability maps	Invited Speaker
Dec 2014	Israel Geography Conference	Haifa	Ecological-economics valuation and mapping of carbon sequestration in the Mediterranean Sea	Invited Speaker

Organization of Conferences or Sessions

Date	Name of Conference	Place of Conference	Subject	Role
May 2013	Symposium on Business Sustainability and the Future Green <i>Manager</i>	Haifa	MBA with specialization in Sustainability at the University of Haifa	Symposium organizer
Jun 2015	Annual Conference of the European Association of Environmental and Resource Economists	Helsinki, Finland	Thematic session on climate change, jellyfish outbreaks and coastal tourism	Session co-organizer

7. Invited Lectures

Date	Place of Lecture	Name of Forum	Presentation/Comments
3 Jul 2005	Venice, Italy	EAERE/FEEM/VIU European Summer School in Resource and Environmental Economics	Evaluating functions and benefits of constructed wetlands
26 Mar 2009	Burlington, VT, USA	Presentation at ARIES Valuation Workshop at University of Vermont	Meta-analytic approach to value transfer
29 Sep 2010	Venice, Italy	Ecosystem Services Training Day	Global values of coastal ecosystems recreation services. Panel discussant
24 Jul 2013	Jerusalem, Israel	Environmental Economics/Finance workshop at Milken Institute Israel Center	Economic valuation of marine and coastal ecosystem services
17–20 Nov 2013	Richmond, VA, USA	Robins School of Business, University of Richmond	Invited guest lectures in “Water Economics, Politics and Policy”
27 Apr 2015	Shanghai, China	Faculty of Ecology and Environmental Sciences, East China Normal University	Building natural capital: ecological engineering and sustainable water management

* 22 Jan 2017	Haifa, Israel	University of Haifa. Forum on Sustainable Development: Solid Waste Management in Mainland China and Hong Kong	The role of ecological engineering in sustainable water resources management
* 13 Nov 2017	Tel Aviv, Israel	Tel Aviv University, Steinhardt Museum of Natural History. Symposium on Governing nature: Science, Policy and Risk Regulation	The socio-economic dimension of biodiversity policy: insights from the EU

8. Colloquium Talks

Date	Place of Lecture	Name of Forum	Presentation/Comments
16 Dec 2008	Washington DC, USA	Seminar at Conservation International headquarters	The economic value of wetland conservation and creation: A meta-analysis
4 Jun 2009	Washington DC, USA	Seminar at Conservation International headquarters	Coastal tourism and recreation under climate change
5 Jan 2015	Technion, Faculty of Architecture and Town Planning, Haifa, Israel	Faculty colloquium series Fall 2014	Mapping socio-economic vulnerability of coastal recreation to jellyfish outbreaks in Israel and the Mediterranean Sea
* 11 Dec 2016	Hebrew University of Jerusalem, Dept. of Environmental Economics and	Department seminar	Using geotagged photos from social media to analyze and map cultural ecosystem services: an application to man-made wetlands
* 14 Mar 2017	Tel Aviv University, Dept. of Geography and the Human Environment	Department seminar	Using geotagged photos from social media to analyze and map cultural ecosystem services: an application to man-made wetlands

9. Research Grants

Grants Awarded

Role	Other Researchers	Topic	Funded by (C=Competitive Fund)	Year
Co-PI	Fondazione Eni Enrico Mattei (Dr. Paulo Nunes, PI); Vrije Universiteit Amsterdam; Ecologic Institute, Germany	Scaling up ecosystem services: methodology, applicability and a case-study of wetland valuation	European Environment Agency - EEA (30,000 EUR; 6 months)	2007
Co-PI	Fondazione Eni Enrico Mattei (Dr. Paulo Nunes, PI); Vrije Universiteit Amsterdam; GHK Consulting, UK; Ecologic, Germany; Institute for European Environmental	Characterize the social dimension of biodiversity policy in EU and worldwide	EU DG Environment (100,000 EUR; 8 months)	2009
Co-PI	Ben-Gurion University of the Negev (Dr. Rami Messalem, PI); Central & Northern Arava R&D; National Center for Agricultural Research and Extension, Jordan; Environmental Protection and Research Institute, Gaza	Solar-powered desalination of brackish water with nanofiltration membranes for intensive agricultural use in Jordan and Israel	USAID Middle East Regional Cooperation (MERC) Program (447,000 USD; 3 years)	2014
Co-PI	Dr. Mashor Housh (PI); Dr. Anna Brook (PI); Prof. Avi Shaviv (Co- PI); Dr. David Katz (Co-PI)	An integrated modeling framework for real-time irrigation scheduling: the benefit of imaging spectroscopy and weather forecasts	Water Authority (342,000 ILS; 3 years)	2014
* PI	Prof. Sabu Joseph (PI), University of Kerala, India	Ecosystem service assessment and mapping for sustainable management of wetlands in Kerala, India	Joint UGC-ISF Research Grant (C) (266,000 USD; 3 years)	2017
* PI	Dr. David Katz (PI)	Using social media to evaluate recreation activities in the Kishon river basin	Kishon River Authority (10,000 ILS; 1 year)	2017

10. Scholarships, Awards and Prizes

- Oct 2010 Awarded (together with Dr. R. Messalem) a 250,000 USD donation from an international donor to pursue a 2-year research on the development of a solar-powered agricultural facility in Hatzeva, Israel
- Mar 2011 Awarded (with Dr. R. Messalem) a 30,000 USD scholarship from Alliance for Global Good to support graduate students to pursue research in the field of solar desalination in Israel and Jordan
- May 2011 Awarded a scholarship from the National Academies Keck Futures Initiative to participate to the 9th Annual conference on “Ecosystem services: Charting a path to food security that is a win win for people and the environment”, Irvine, CA, USA, 11–13 November 2011
- Oct 2012 Awarded (together with Dr. R. Messalem) a 360,000 USD donation from an international donor to pursue a 2-year research on the scaling up of solar- powered agricultural facility in the Arava Valley of Israel
- Nov 2013 Invited to the Entrepreneurship Training Workshop for Young Scientists and Engineers on “Sharing the start-up experience”, initiated and led by Nobel Prize Laureate Prof. Dan Shechtman, Jerusalem 25–28 November 2013

11. Teaching

Courses Taught in Recent Years

Year	Name of Course	Type of Course	Level
2010	Economic valuation of environmental resources	Mandatory; frontal	M.A.
Since 2012	Climate change impacts and adaptation	Mandatory; frontal	M.A.
Since 2012	Non-conventional water resources	Elective; frontal	M.A.
2013	Sustainability, Cleantech and Business	Elective; frontal	M.B.A.
Since 2016	Water and wastewater treatment	Elective; frontal	M.A.
Since 2016	Principles of Sustainability	Mandatory; frontal	M.B.A.
2014–2016	Green technologies, sustainability and the environment in Israel	Elective; frontal	B.A.
Since 2016	Sustainability, Cleantech and Business	Mandatory; seminar	M.B.A.
Since 2016	Applied Project	Mandatory	M.B.A.
Since 2018	Environmental Economics	Mandatory; frontal	M.A.

Supervision of Graduate Students**a) Post-doctoral students**

Name of Student	Topic of Research	Date of Completion
1. Devender S. Dhanda	Using social media to assess, map and value ecosystem services in India	In progress

b) Ph.D. students

Name of Student	Title of Thesis	Degree	Date of Completion
2. Stanley Rubenstein (with Prof. M. Shechter)	Employment and Israel's Green Economy	Ph.D.	In progress
3. Shoshi Ofek (with Prof. B. Portnov)	Green construction in Israel: understanding the concept by main players and analysis of the factors affecting the size of agreeable green premium	Ph.D.	In progress
4. Michael Sinclair	Applications of social media for the assessment and valuation of ecosystem services	Ph.D.	In progress

c) Master students with thesis

Name of Student	Title of Thesis	Degree	Date of Completion
5. Susanna von Sydow, University of York (with Dr. J. Barron)	The value of ecosystem services from the Kilombero wetland in Tanzania	M.Sc.	2013
6. Lior Singer, Ben-Gurion University (with Prof. A. Brenner and Dr. R. Messalem)	Solar desalination of brackish water for agricultural purposes using nanofiltration membranes	M.Eng.	2014
7. Zoya Zilberfarb (with Dr. R. Palatnik)	Public acceptance of greywater reuse in Maalot-Tarshiha	M.A.	2015
8. Ariel Akron, Tel Aviv University (with Prof. T. Dayan)	Economic valuation of ecosystem services in the Kinneret Basin	M.Sc.	2017
9. Amir Cahn (with Dr. D. Katz)	Understanding Israeli customer preferences for real-time water feedback technology	M.A.	2017
10. Michael Sinclair (with Dr. Sheela A. Moses)	Using geotagged photos from social media to evaluate cultural ecosystem services in Kerala's wetlands, India	M.A.	2017

11. Bayan Lahiani (with Prof. A. Haim)	Management of water and wastewater in Druze villages in Israel	M.A.	Submitted
12. Yossie Calic (with Dr. K. Lotan and Dr. G. Rilov)	Global comparative study of environmental regulation pertaining to oil and gas drilling in Israel and the Mediterranean Sea basin	M.A.	In progress

d) Master students with final project

Name of Student	Title of Thesis	Degree	Date of Completion
13. Yossi Itzhak (with Prof. A. Haim)	Ecological and economic solution for evaporation ponds treating industrial sewage from pickles factory	M.A.	2013
14. Tomer Oz, Guy Silfen (with Dr. T. Eshet)	Economic valuation of the externalities associated with seawater desalination in Israel	M.A.	2013
15. Keren Boaron, Meital Katzan, Yael Nachmias (with Dr. P. Nunes)	Combined socio-economic impacts of jellyfish outbreaks and other sources of pollution on recreation in the Israeli coastal plan	M.A.	2013
16. Gai Magen, Edan Ben Ami, Tomy Yedidya (with Prof. O. Ayalon)	Assessment of energy saving methods in wastewater treatment plants (WWTPs)	M.A.	2014
17. Edna Fichtman, Oded Meshulam (with Prof. A. Haim)	Ancillary benefits of natural wastewater treatment systems	M.A.	2014
18. Maia Ravid, Efraim Naim, Rachel Ben Hurin (with Dr. O. Bone and Dr. N. Har)	Using mulching to reduce water use and greenhouse gas emissions when establishing new forests	M.A.	2014
19. Rinat Pilipp, Dotan Yosha (with Prof. A. Haim)	Economic valuation of the recreation benefits of Nahal HaShofet park using the travel cost method	M.A.	2014
20. Ronen Illouz, Gil Applebaum, Bayan Hammood (with Prof. M. Shechter)	Cost comparison of single freshwater supply system and dual fresh/seawater supply system in Tel Aviv district	M.A.	2015